**Digital Eye-Movement Data from the R.M. Steinman Eye Movement Laboratory**

In 1984, while visiting the eye-movemen laboratory of Dr. R.M. Steinman and with the additional help and collaboration of Drs. H. Collewijn and J. Van der Steen, the eye movement data of DD\_OMLAB S001 were taken using a magnetic search-coil system; the data were digitized.

Some of that data appeared in publications 077 – 079 and 164 (downloadable from <http://omlab.org/Personnel/lfd/Jrnl_Arts/lfd3.html>). Below is a list of the available digitized eye-movement data from S001 (who had hereditary INS [aka, CN]) that is now available to researchers, residents, and fellows for subsequent studies. Hopefully, this database will encourage research by those who have no access to eye-movement data; please cite the database in any resulting publications.

**FOLDERS AGE SEX DATE DX/CH RM/DP FILE NAMES MISC**

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**S001** 43/M 1984 INS-h sc/hv D01-D05 conv damp

**MDFX (Fixation: far, near & far w BO prisms)**

**S001d1Hh**  sc/h HH01\_1,7

**S001d1lh**  sc/h LSH01\_1-10

**S001d1lv**  sc/v LSZ01\_1,7

**S001d1rh**  sc/h RSH01\_1,7

**S001d1rv**  sc/h RSZ01\_1,7

**S001d1Vh**  sc/h VH01

**S001d2lh**  sc/h LSH02\_1,39-41

**S001d2lv\_vrg**  sc/h LSZ02\_1,39-41

**S001d2rh\_ab**  sc/h RSH02\_1,39-41

**S001d2rv**  sc/v RSZ02\_1,39-41

**S001d2rv\_vrg**  sc/v RSZ02\_1,39-41

**S001d3lh**  sc/h LSH03\_1

**S001d4rh** sc/h RSH04\_1,10,19

**S001d4rv** sc/v RSZ04\_1

**S001d5lh**  sc/h LSH05\_1-12

**S001d5rh**  sc/h RSH05\_1-12

**MDSP (Smooth Pursuit)**

**S001d3lh**  sc/h LSH03\_6-29

**S001d3Th**  sc/h TH03\_6-29

**MDVOR (Vestibulo-Ocular Reflex)**

**S001d4Hh**  sc/h HH04\_2-5,11-14

**S001d4Hv**  sc/v HZ04\_6-18

**S001d4rh**  sc/h RSH04\_2-5,11-14

**S001d4rHh**  sc/h RHH04\_2-5,11-14

**S001d4rHv**  sc/v RHZ04\_6-9,15-18

**S001d4rv**  sc/v RSZ04\_6-9,15-18

**MDVT (Vergence Tracking)**

**S001d5lh** sc/h LSH05\_13-20

**S001d5rh** sc/h RSH05\_13-20

**S001d5Th** sc/h TH05\_13-20

**NOTES:**

Data (in minarc) were taken from omlab subject, **S001** over a 5-day period with the search coil system of Dr. R.M. Steinman

**Subject #:** Data folder names contain the subject #, S001, followed by the day of the recording (d1 – d5) and either: 1) the eye (l or r) and plane (h or v); or 2) the head (H) and plane (h or v); or 3) the target (T) and plane (h or v). Data files taken from a session are identified with letters and numbers reflecting the type of data, the plane, and the day (e.g. LSH01\_7 is the 7th file of left-eye, horizontal data taken on day 1). All eye movements are in space except during VOR when eye-in-head data were also recorded (e.g., rHh is right eye in Head, horizontal). Data is read in and calibrated by ‘rd’ using the “adjbias.txt” file that should be a copy of either “adjbias\_deg.txt” or ”adjbias\_minarc.txt” depending on whether you wish to work in degrees or minutes of arc.

**Age:** when recordings were made.

**DX/CH=Diagnoses/Characteristics:** CN, congenital nystagmus = INS, infantile nystagmus syndrome; INS-h, hereditary INS

**RM/DP=Recording Method/Data Planes:** sc, magnetic search coil; / l, left; r, right; h, horizontal; v, vertical; H, head; T, target; V, vergence.

**Miscellaneous:** Additional relevant data (e.g.: conv damp, convergence damping).

**Data Acquisition and Analysis**

The data and calibration files have been set up for easy retrieval and analysis using OMtools (downloadable from <http://omlab.org/software/software.html>). Before starting, it is recommended that the following OMLAB Reports be downloaded and read from <http://omlab.org/Teaching/teaching.html>: OMLAB Report #011105 and OMLAB Report #111005.

OMLAB (Steinman) Data (Using OMtools)

1. Check that there is an 'adjbias\_name.txt' file

If not, copy another and edit it for proper file names

2. Load using 'rd'